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Detectors for Superboosted Jet Substructure at Future Circular Colliders

Saturday 6 August 2016 18:00 (2 hours)

We study detector performance of jet substructure variables for extremely boosted objects at very high energy proton colliders. We study hadronically-decaying W bosons with transverse momentum in the multi-TeV range. Calorimeter detectors are benchmarked in various configurations in order to understand the impact of granularity and resolution on boosted boson discrimination.

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